

## United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

DATE MAILED: 02/27/2004

APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/691,838	10/18/2000		Noriaki Takakura	018901/0178	3535
22428	7590 02/27/2004			EXAMINER	
FOLEY AND LARDNER				TANG, K	ENNETH
SUITE 500 3000 K STREET NW				ART UNIT	PAPER NUMBER
WASHINGTON, DC 20007				2127	<del></del>

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No.	Applicant(s)					
09/691,838	TAKAKURA, NORIAKI					
Examiner	Art Unit					
Kenneth Tang	2127					
n appears on the cover sheet v	vith the correspondence address					
EPLY IS SET TO EXPIRE 3 NON.  FR 1.136(a). In no event, however, may a not	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).					
<b>.</b>						
This action is non-final.						
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
tion. hdrawn from consideration. and/or election requirement.						
·						
reign priority under 35 U.S.C. ments have been received. ments have been received in priority documents have bee ureau (PCT Rule 17.2(a)). a list of the certified copies no	Application No. $\frac{3}{2}$ . n received in this National Stage					
8) Paper No (B/08) 5) Notice of	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152) 					
	Examiner  Kenneth Tang  Tappears on the cover sheet was present and the cover sheet was a policy of the cover sheet was a poli					

Application/Control Number: 09/691,838

Art Unit: 2127

## **DETAILED ACTION**

1. Claims 1-7 are presented for examination.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-7 are rejected under 35 U.S.C. 102(e) as being unpatentable by Kamada et al. (hereinafter Kamada) (US 6,108,683).
- 3. As to claim 1, Kamada teaches a process scheduling system comprising:
  - plural process schedulers respectively associated with plural user process groups each having at least one user process and selectively activated so as to search the associated user process groups for an executable user process ( "user-level process scheduler" 10-11, "second user-level process scheduler" 10-12, "user process", 12-1, 12-2, 12-3 of Fig. 3),
  - an administrator for managing said plural process schedulers ("the group of the user processes which are managed by using the process management table 18", col. 12, lines 1-4 and Fig. 6, item 18),

Page 2

Art Unit: 2127

- a process managing section respectively associated with said plural process schedulers for managing said plural user process groups ("the group of the user processes which are managed by using the process management table 18", col. 12, lines 1-4 and Fig. 6, item 18), and
- a selector cooperating with said administrator for selectively activating said plural process schedulers and informed of said executable user process ("user process schedulers", "process execution instruction portion by referring to the process management table", col. 4, lines 43-52).
- 4. As to claim 2. Kamada teaches a process changer associated with said selector and changing a presently processed user process to said executable user process ("change instruction portion", col. 4, lines 43-52).
- 5. As to claim 3, Kamada teaches in which said administrator has pieces of data information respectively unique to said plural process schedulers ("process management table", col. 4, lines 43-52).
- 6. As to claim 4, Kamada teaches in which said pieces of data information are representative of starting addresses of programs for implementing said plural process schedulers, respectively ("process management table", col. 4, lines 43-52).

Page 4

Application/Control Number: 09/691,838

Art Unit: 2127

7. As to claim 5, Kamada teaches in which said process managing section has pieces of data information respectively each having at least one sub-piece of data information unique to said at least one user process of one of said user process groups ("process management table", col. 4, lines 43-52).

- 8. As to claim 6, Kamada teaches a process for scheduling user processes, comprising the steps of:
  - a) retaining a context of presently processed user process ("process execution control portion", "user process", "schedulers", col. 4, lines 23-58);
  - b) calling a selector into execution ("request or demand from user process", col. 4, lines 43-52);
  - c) selecting one of process schedulers respectively associated with user process groups each having at least one user process ("user process schedulers", "process execution instruction portion by referring to the process management table", col. 4, lines 43-52); and
  - d) causing said one of the process schedulers to search the associated user process group for an executable user process ("the user-level process scheduler determines the allocation of the CPU to such user processes and requests the OS to execute such user processes.", see Abstract, and Fig. 6, items 18, 20, and 24).

Page 5

Application/Control Number: 09/691,838

Art Unit: 2127

9. As to claim 7, Kamada teaches the step of causing a context of said executable user process for replacing said presently processed user process with said executable user process ("process execution control portion", "user process", "schedulers", col. 4, lines 25-62).

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth Tang whose telephone number is (703) 305-5334. The examiner can normally be reached on 8:30AM - 7:00PM, Monday through Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (703) 305-9678. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kt 2/22/04

MENG-AL T. AN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100